

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/03439

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G11B5/667, 5/851, C22C38/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G11B5/62-5/858, C22C38/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-134634 A (NEC Corp.), 21 May, 1999 (21.05.99), Full text; all drawings (Family: none)	1-10
A	JP 2001-176048 A (NEC Corp.), 29 June, 2001 (29.06.01), Full text; all drawings (Family: none)	1-10
A	JP 11-203654 A (NEC Corp.), 30 July, 1999 (30.07.99), Full text; all drawings (Family: none)	1-10

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
27 May, 2003 (27.05.03)

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10 June, 2003 (10.06.03)

Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-185237 A (NEC Corp.), 09 July, 1999 (09.07.99), Full text; all drawings (Family: none)	1-10
A	JP 57-176531 A (Canon Inc.), 29 October, 1982 (29.10.82), Full text; all drawings (Family: none)	1-10
A	JP 57-36435 A (Matsushita Electric Industrial Co., Ltd.), 27 February, 1982 (27.02.82), Full text; all drawings (Family: none)	1-10
A	Naohito HAYASHI, "Fe-Si-Al-N Jisei Hakumaku no Jiki Tokusei ni Oyobosu SiO ₂ Kachimaku no Koka", The Institute of Electronics, Information and Communication Engineers Zenkoku Taikai Koen Ronbunshu, March, 1989, Vol.1989, No.Spring Pt.5, pages.5 to 342	1-10
A	Naohito HAYASHI, "Fe-Si-Al-N Gokin Hakumaku o Mochiita Suichoku Jiki Head", The Institute of Electronics, Information and Communication Engineers Zenkoku Taikai Koen Ronbunshu, March, 1988, Vol.1988, No.Spring Pt.2, pages 2 to 19	1-10
A	Daishun Zheng, "Study on The Fe-Al-N Soft Magnetic Thin Films", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 08 November, 2000 (08.11.00), Vol.100, No.423, pages 73 to 78	1-10
A	Hiroataka Hokkyo, "Media Noise Characteristics of CoCrTa/FeSiAl Perpendicular Magnetic Recording Media", Journal of The Magnetics Society of Japan, 1997, Vol.21, Supplement No.S2, pages 517 to 520	1-10